GeoPlatform

Community ToolKit (CTK) and API

GEOPLATFORM.gov

Lara Duffy larad@imagemattersllc.com
Patrick Neal patrickn@imagemattersllc.com

FGDC.GOV
FEDERAL GEOGRAPHIC DATA COMMITTEE

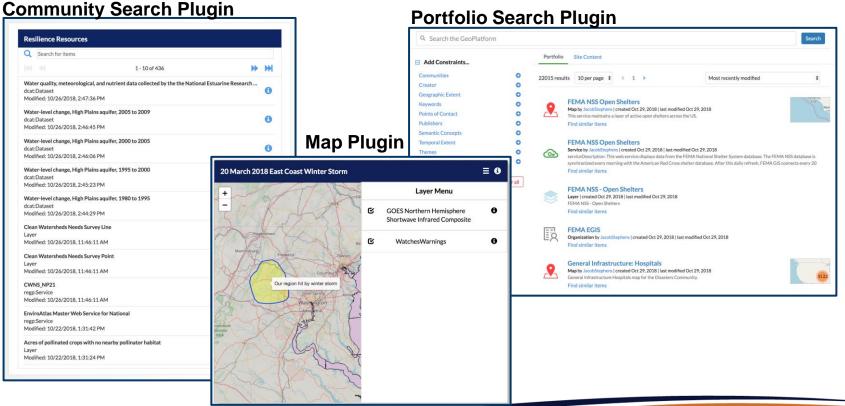U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

Community ToolKit

A collection of tools for content teams to extend and customize the Community experience for users.

Used by the GeoPlatform home page - https://www.geoplatform.gov - and in community spaces such as **https://communities.geoplatform.gov/resilience**

Features:
- Designed with security best practices in mind
- Compatible with many WordPress themes, plugins, and widgets
- Released under Apache 2 license in WordPress marketplace

Available CTK Plugins

Community Search Plugin

Portfolio Search Plugin

Map Plugin

GEOPLATFORM.gov

Towards shared geospatial knowledge and services....

Available CTK Plugins

Community Search Plugin
Quickly find GeoPlatform portfolio resources associated with a community

Map Plugin
Embed interactive GeoPlatform Open Maps with layer controls in community pages

Portfolio Search Plugin
Advanced search against all GeoPlatform portfolio resources

Demonstration

GEOPLATFORM.gov

Towards shared geospatial knowledge and services....

Questions?

GEOPLATFORM.gov

Towards shared geospatial knowledge and services....

GeoPlatform API

Provides access to the **GeoPlatform**, its **data resources**, and its **services** for **discovery**, **curation**, and **exploitation**.

- RESTful, JSON-based API
- Used by the CTK and all GeoPlatform apps and services
- Secured access supported using OAuth 2.0 and JWT

https://www.geoplatform.gov/help/api/

GEOPLATFORM.gov

What Can API Do?

- **Search** and **retrieve** portfolio resources

- **Create** and **curate** resources

- **Harvest** metadata and layer info from web services

- **Test** web services for **compliance** and **performance**
  - Using *FGDC Service Checker*

- **Import** ISO metadata as portfolio resources

- **Import** from **ArcGIS Online** and **Data.gov**

Towards shared geospatial knowledge and services....

API Support Libraries

API Client - portfolio-based service access classes and methods

Map Core - LeafletJS-based rendering and interacting with GeoPlatform Maps and Layers

NG Common - Angular 1.x front-end components and authentication support

Style - Less/CSS and JS to achieve the GeoPlatform look-and-feel

GP OAuth - links client applications to the GeoPlatform Identity Provider service

GEOPLATFORM.gov

Towards shared geospatial knowledge and services....

Get Started using the GeoPlatform API

Quick-start guide available at:

https://www.geoplatform.gov/help/api/getting-started/

Walks through building a sample app using NodeJS, Angular 1.6, and the GeoPlatform API support libraries.

Source code available via the API Client GitHub repository:
https://github.com/GeoPlatform/client-api/tree/master/examples/sample-app

Towards shared geospatial knowledge and services....

Questions?

Thanks!